

SEMI-PERMANENT CANAL HEARING DEVICE

ABSTRACT

A semi-permanent hearing device is disclosed which is adapted to be completely positioned within the ear canal of an individual for long-term use. The device comprises a sealing retainer substantially positioned in the bony region of the ear canal and a core assembly including a receiver assembly coaxially positioned within the sealing retainer. When the device is inserted into its completely-in-the-canal position, the core assembly extends from the sealing retainer to the cartilaginous region of the ear canal in a non-occluding fashion, thereby minimizing interference with hair and earwax production present in the cartilaginous region.

(In a preferred embodiment of the device, the core assembly comprises a battery assembly conforming substantially to the shape and dimensions of the battery enclosed within the assembly. A connector in the form of a thin ribbon film provides electrical and flexible mechanical connectivity between the receiver assembly, the centrally positioned battery assembly, and a microphone assembly positioned in the cartilaginous region.) The disclosed hearing device is characterized by the absence of a unitary enclosure or a main housing, in contrast to the enclosure or housing which typically encompasses the battery along with other components in prior art hearing device designs.

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